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(FILE 'HOME' ENTERED AT 09:28:32 ON 30 MAY 2003)

FILE 'REGISTRY' ENTERED AT 09:28:45 ON 30 MAY 2003
L1 1 S LEVAN/CN

FILE 'BIOSIS, BIOTECHNO, CAPLUS, EMBASE, MEDLINE' ENTERED AT 09:29:44 ON
30 MAY 2003

L2 1254 S 9013-95-0
L3 263383 S IMMobiliz?
L4 55 S L2 AND L3
L5 26 DUPLICATE REMOVE L4 (29 DUPLICATES REMOVED)
L6 449785 S CARRIER
L7 39 S L2 AND L6
L8 26 DUPLICATE REMOVE L7 (13 DUPLICATES REMOVED)
L9 174568 S POLYSACCHARIDE?
L10 350 S L2 AND L9
L11 1366042 S MICROORGANISM OR BACTERIA
L12 69 S L10 AND L11
L13 57 DUPLICATE REMOVE L12 (12 DUPLICATES REMOVED)
L14 2984 S L3 (3W) L11
L15 2 S L14 AND L2
L16 17574 S BIOPREMIAT?
L17 1 S L2 AND L16
L18 174629 S GLUTAMIC (2A) ACID
L19 1462 S L18 AND L3
L20 84 S L11 AND L19
L21 73 DUPLICATE REMOVE L20 (11 DUPLICATES REMOVED)
L22 843 S ZOOGLOEA
L23 175244 S POLYSACCHARID?
L24 97 S L22 AND L23
L25 60 DUPLICATE REMOVE L24 (37 DUPLICATES REMOVED)
L26 683 S EXTRACELLULAR (3A) POLYMER
L27 263383 S IMMobiliz?
L28 22 S L26 AND L27

FILE 'REGISTRY' ENTERED AT 09:57:08 ON 30 MAY 2003

L29 53929 S GLUTAMIC/CNS
L30 5893466 S ACID/CNS
L31 89884 S BENZYL/CNS

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L1 1 S LEVAN/CN

FILE 'BIOSIS, BIOTECHNO, CAPLUS, EMBASE, MEDLINE' ENTERED AT 09:29:44 ON
30 MAY 2003

FILE 'REGISTRY' ENTERED AT 09:57:08 ON 30 MAY 2003

L29 53929 S GLUTAMIC/CNS
L30 5893466 S ACID/CNS
L31 89884 S BENZYL/CNS
L32 833 S L29 AND L30 AND L31
L33 1217427 S "L"/CNS
L34 687 S L32 AND L33
L35 22693 S (BENZYL(2A)ESTER)/CNS
L36 46948 S L29 AND L30 AND L33
L37 325 S L36 AND L35
L38 14998 S ("BENZYL ESTER")/CNS
L39 52298 S ("GLUTAMIC ACID")/CNS
L40 196 S L38 AND L39
L41 156 S L40 AND L33
L42 4355 S ("N-BENZYL ESTER")/CNS
L43 107 S L41 NOT L42
L44 104 S PRAESTOL/CNS
L45 0 S ("PRAESTOL 185")/CNS
L46 20814 S K/CNS
L47 6 S L46 AND L44

L Number	Hits	Search Text	DB	Time stamp
1	265556	microorganism or bacteria	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 10:11
2	81980	immobiliz\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 10:11
3	389371	precipit\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 10:11
4	111	(microorganism or bacteria) same immobiliz\$ same precipit\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 10:12
5	1264	435/262, 262.5.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 10:12
6	338705	emulsion	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 10:12
7	135	(435/262, 262.5.ccls.) and emulsion	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 10:13
8	656	(microorganism or bacteria) near5 emulsion	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 10:13
9	31716	glutamic adj2 acid	USPAT; US-PGPUB	2003/05/30 10:13
10	40	((microorganism or bacteria) near5 emulsion) and (glutamic adj2 acid)	USPAT; US-PGPUB	2003/05/30 10:17
11	120244	emulsif\$	USPAT; US-PGPUB	2003/05/30 10:17
12	272119	emulsion or (microorganism or bacteria)	USPAT; US-PGPUB	2003/05/30 10:17
13	212974	emulsion or emulsif\$	USPAT; US-PGPUB	2003/05/30 10:17
14	358	(glutamic adj2 acid) same (emulsion or emulsif\$)	USPAT; US-PGPUB	2003/05/30 10:18
15	80	(microorganism or bacteria) same ((glutamic adj2 acid) same (emulsion or emulsif\$))	USPAT; US-PGPUB	2003/05/30 10:19
16	1	(435/262, 262.5.ccls.) and ((glutamic adj2 acid) same (emulsion or emulsif\$))	USPAT; US-PGPUB	2003/05/30 10:20
17	186	(435/262, 262.5.ccls.) and (emulsion or emulsif\$)	USPAT; US-PGPUB	2003/05/30 10:21
18	992	levan	USPAT; US-PGPUB	2003/05/30 10:21
19	1	((435/262, 262.5.ccls.) and (emulsion or emulsif\$)) and levan	USPAT; US-PGPUB	2003/05/30 10:21

-	1942	435/177-182.ccls.	USPAT;	2002/07/19 14:55
-	25772	glutamic	US-PGPUB	2002/06/21 09:54
-	191	435/177-182.ccls. and glutamic	USPAT;	2002/06/21 09:54
-	23046	glutamic adj2 acid	US-PGPUB	2003/05/30 10:13
-	156	435/177-182.ccls. and (glutamic adj2 acid)	USPAT;	2002/06/21 10:10
-	835	levan	US-PGPUB	2002/06/21 10:10
-	9	435/177-182.ccls. and levan	USPAT;	2002/06/21 10:13
-	85478	microorganism or bacteria	DERWENT	2002/06/21 10:13
-	4711	immobiliz\$	DERWENT	2002/06/21 10:13
-	417	(microorganism or bacteria) and immobiliz\$	DERWENT	2002/06/21 10:13
-	190	levan	DERWENT	2002/06/21 10:22
-	0	((microorganism or bacteria) and immobiliz\$) and levan	DERWENT	2002/06/21 10:13
-	747113	polymer	DERWENT	2002/06/21 10:13
-	105	((microorganism or bacteria) and immobiliz\$) and polymer	DERWENT	2002/06/21 10:13
-	289080	carrier	DERWENT	2002/06/21 10:13
-	4587	(microorganism or bacteria) and carrier	DERWENT	2002/06/21 10:14
-	2	levan and ((microorganism or bacteria) and carrier)	DERWENT	2002/06/21 10:14
-	2936	polymer near5 carrier	DERWENT	2002/06/21 10:14
-	116	(polymer near5 carrier) and (microorganism or bacteria)	DERWENT	2002/06/21 10:16
-	906	c12n011/02.ipc.	DERWENT	2002/06/21 10:16
-	1	c12n011/02.ipc. and levan	DERWENT	2002/06/21 10:18
-	158	fructofuranosyl or fructosyl	DERWENT	2002/06/21 10:18
-	2	c12n011/02.ipc. and (fructofuranosyl or fructosyl)	DERWENT	2002/06/21 10:19
-	139	fructofuranosyl	USPAT;	2002/06/21 10:19
-	316	fructosyl	USPAT;	2002/06/21 10:19
-	430	fructofuranosyl or fructosyl	USPAT;	2002/06/21 10:20
-	446	435/178.ccls.	USPAT;	2002/06/21 10:20
-	1	(fructofuranosyl or fructosyl) and 435/178.ccls.	USPAT;	2002/06/21 10:20
-	835	levan	USPAT;	2002/06/21 10:20
-	4	435/178.ccls. and levan	USPAT;	2002/06/21 10:21
-	56486	degrade or degrading or degradation	DERWENT	2002/06/21 10:21
-	1468	biodegrade or biodegrading or biodegradation	DERWENT	2002/06/21 10:22
-	1574	(microorganism or bacteria) same (degrade or degrading or degradation)	DERWENT	2002/06/21 10:22
-	2943	(biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degrading or degradation))	DERWENT	2002/06/21 10:22
-	3	((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degrading or degradation))) and levan	DERWENT	2002/06/21 10:23
-	60459	aminoacid or (amino adj2 acid)	DERWENT	2002/06/21 10:23
-	742	(aminoacid or (amino adj2 acid)) near5 polymer	DERWENT	2002/06/21 10:23
-	6	((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degrading or degradation)))	DERWENT	2002/06/21 10:24
-	1	((aminoacid or (amino adj2 acid)) near5 polymer) and c12n011/02.ipc.	DERWENT	2002/06/21 10:26
-	448	435/262.5.ccls.	USPAT;	2002/06/21 10:27
-	99454	aminoacid or (amino adj2 acid)	USPAT;	2002/06/21 10:28
-	382122	polymer	USPAT;	2002/06/21 10:28

	4003	(aminoacid or (amino adj2 acid)) near5 polymer	USPAT; US-PGPUB	2002/06/21 10:28
	1	435/262.5.ccls. and ((aminoacid or (amino adj2 acid)) near5 polymer)	USPAT; US-PGPUB	2002/06/21 10:28
	1350214	carrier or support or immobiliz\$	USPAT; US-PGPUB	2002/06/21 10:34
	889	((aminoacid or (amino adj2 acid)) near5 polymer) same (carrier or support or immobiliz\$)	USPAT; US-PGPUB	2002/06/21 10:30
	380	(((aminoacid or (amino adj2 acid)) near5 polymer) same (carrier or support or immobiliz\$)) and 435/\$.ccls.	USPAT; US-PGPUB	2002/06/21 10:30
	105955	bacteria or microbe or microorganism	USPAT; US-PGPUB	2002/06/21 10:34
	3701	(carrier or support or immobiliz\$) near5 (bacteria or microbe or microorganism)	USPAT; US-PGPUB	2002/06/21 10:31
	1	((carrier or support or immobiliz\$) near5 (bacteria or microbe or microorganism)) same ((aminoacid or (amino adj2 acid)) near5 polymer)	USPAT; US-PGPUB	2002/06/21 10:32
	4560	Polyamino	USPAT; US-PGPUB	2002/06/21 10:32
	1	((carrier or support or immobiliz\$) near5 (bacteria or microbe or microorganism)) same Polyamino	USPAT; US-PGPUB	2002/06/21 10:33
	636	210/150.ccls.	USPAT; US-PGPUB	2002/06/21 10:33
	1	210/150.ccls. and levan	USPAT; US-PGPUB	2002/06/21 10:33
	1124304	carrier or support or immobiliz\$	DERWENT	2002/06/21 10:34
	96287	bacteria or microbe or microorganism	DERWENT	2002/06/21 10:34
	4651	(carrier or support or immobiliz\$) same (bacteria or microbe or microorganism)	DERWENT	2002/06/21 10:34
	190	levan	DERWENT	2002/06/21 10:35
	2	((carrier or support or immobiliz\$) same (bacteria or microbe or microorganism)) and levan	DERWENT	2002/06/21 10:35
	4407	fructose	DERWENT	2002/06/21 10:35
	14	((carrier or support or immobiliz\$) same (bacteria or microbe or microorganism)) and fructose	DERWENT	2002/06/21 10:36
	506	c12n011/10.ipc.	DERWENT	2002/06/21 10:37
	0	c12n011/10.ipc. and levan	DERWENT	2002/06/21 10:48
	254	435/177-182.ccls. and fructose	USPAT; US-PGPUB	2002/06/21 10:50
	243	fructose near5 polymer	USPAT; US-PGPUB	2002/06/21 10:50
	3	(fructose near5 polymer) and 435/177-182.ccls.	USPAT; US-PGPUB	2002/06/21 10:51
	446	435/178.ccls.	USPAT; US-PGPUB	2002/06/21 10:52
	81212	gum	USPAT; US-PGPUB	2002/06/21 10:52
	88	435/178.ccls. and gum	USPAT; US-PGPUB	2002/06/21 10:53
	0	tsuchiya-a\$in.	JPO; DERWENT	2002/06/21 10:54
	3060	pollutants.ti.	JPO; DERWENT	2002/06/21 10:54
	242131	treatment.ti.	JPO; DERWENT	2002/06/21 10:54
	251	pollutants.ti. and treatment.ti.	JPO; DERWENT	2002/06/21 10:59
	28486	b09b003/00.ipc.	JPO; DERWENT	2002/06/21 10:59
	232	levan	JPO; DERWENT	2002/06/21 11:00
	0	b09b003/00.ipc. and levan	JPO; DERWENT	2002/06/21 11:00
	910	c12N011/02.ipc.	DERWENT	2002/07/19 13:01
	854	c12N011/04.ipc.	DERWENT	2002/07/19 13:01

-	1669	c12N011/08.ipc.	DERWENT	2002/07/19 13:01
-	509	c12N011/10.ipc.	DERWENT	2002/07/19 13:01
-	3483	c12N011/02.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or c12N011/10.ipc.	DERWENT	2002/07/19 14:35
-	752695	polymer	DERWENT	2002/07/19 13:02
-	1354	(c12N011/02.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or c12N011/10.ipc.) and polymer	DERWENT	2002/07/19 13:02
-	55005	pollut\$	DERWENT	2002/07/19 13:02
-	5608	polymer and pollut\$	DERWENT	2002/07/19 13:02
-	19	((c12N011/02.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or c12N011/10.ipc.) and polymer) and pollut\$	DERWENT	2002/07/19 13:16
-	746	natural adj polymer	DERWENT	2002/07/19 13:17
-	13	(c12N011/02.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or c12N011/10.ipc.) and (natural adj polymer)	DERWENT	2002/07/19 14:08
-	35921	microorganism	DERWENT	2002/07/19 14:08
-	875479	support	DERWENT	2002/07/19 14:08
-	1269	microorganism and support	DERWENT	2002/07/19 14:08
-	192	levan	DERWENT	2002/07/19 14:08
-	0	(microorganism and support) and levan	DERWENT	2002/07/19 14:08
-	3483	c12N011/02.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or c12N011/10.ipc.	DERWENT	2002/07/19 14:35
-	192	levan	DERWENT	2002/07/19 14:35
-	1	(c12N011/02.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or c12N011/10.ipc.) and levan	DERWENT	2002/07/19 14:35
-	1951	435/177-182.ccls.	USPAT; US-PGPUB	2002/07/19 14:55
-	236	extracellular adj polysaccharide	USPAT; US-PGPUB	2002/07/19 14:56
-	3	435/177-182.ccls. and (extracellular adj polysaccharide)	USPAT; US-PGPUB	2002/07/19 15:01
-	978	biofilm	USPAT; US-PGPUB	2002/07/19 15:01
-	457298	carrier	USPAT; US-PGPUB	2002/07/19 15:42
-	69	biofilm same carrier	USPAT; US-PGPUB	2002/07/19 15:15
-	387515	polymer	USPAT; US-PGPUB	2002/07/19 15:16
-	6	biofilm adj2 polymer	USPAT; US-PGPUB	2002/07/19 15:17
-	3	biofilm adj2 polymer	DERWENT	2002/07/19 15:41
-	0	carrier same (extracellular adj polymer)	USPAT; US-PGPUB	2002/07/19 15:42
-	50	extracellular adj polymer	USPAT; US-PGPUB	2002/07/19 15:53
-	22961	extracellular	USPAT; US-PGPUB	2002/07/19 15:53
-	204	435/177-182.ccls. and extracellular	USPAT; US-PGPUB	2002/07/19 15:57
-	5	slime adj polymer	USPAT; US-PGPUB	2002/07/19 15:57
-	221	levan	USOCR	2002/09/04 09:37
-	25	poly near5 glutamic	USOCR	2002/09/04 09:38
-	246	levan or (poly near5 glutamic)	USOCR	2002/09/04 09:38
-	5719	immobiliz\$	USOCR	2002/09/04 09:38
-	2	(levan or (poly near5 glutamic)) and immobiliz\$	USOCR	2002/09/04 09:38
-	728	poly near5 glutamic	USPAT; US-PGPUB	2002/09/04 09:38
-	855	levan	USPAT; US-PGPUB	2002/09/04 09:39
-	54708	immobiliz\$	USPAT; US-PGPUB	2002/09/04 09:39
-	1563	(poly near5 glutamic) or levan	USPAT; US-PGPUB	2002/09/10 15:07

-	13	immobiliz\$ same ((poly near5 glutamic) or levan)	USPAT;	2002/09/04 09:41
-	639	210/150.ccls.	US-PGPUB	2002/09/04 09:41
-	1	((poly near5 glutamic) or levan) and 210/150.ccls.	USPAT;	2002/09/04 09:43
-	4554	gel adj2 matrix	US-PGPUB	2002/09/04 09:43
-	0	((poly near5 glutamic) or levan) near5 (gel adj2 matrix)	USPAT;	2002/09/04 13:59
-	2504	435/174-182.ccls.	US-PGPUB	2002/09/04 13:59
-	1563	(poly near5 glutamic) or levan	USPAT;	2002/09/04 14:00
-	35	435/174-182.ccls. and ((poly near5 glutamic) or levan)	US-PGPUB	2002/09/04 14:00
-	1571	(poly near5 glutamic) or levan	USPAT;	2002/09/10 15:13
-	1571	(poly near5 glutamic) or levan	USPAT;	2002/09/10 15:19
-	86249	b01d053/\$.ipc. or c02f003/\$.ipc.	US-PGPUB	2002/09/11 06:47
-	1514	natural adj2 polymer	DERWENT	2002/09/10 15:15
-	19	(b01d053/\$.ipc. or c02f003/\$.ipc.) and (natural adj2 polymer)	DERWENT	2002/09/10 15:19
-	371	(poly near5 glutamic) or levan	DERWENT	2002/09/10 15:19
-	74180	gel	DERWENT	2002/09/10 15:19
-	32	((poly near5 glutamic) or levan) and gel	DERWENT	2002/09/10 15:21
-	81989	crosslink\$ or (cross adj2 link\$)	DERWENT	2002/09/10 15:21
-	14	((poly near5 glutamic) or levan) same (crosslink\$ or (cross adj2 link\$))	DERWENT	2002/09/10 15:22
-	721	cationic adj3 salt	DERWENT	2002/09/10 15:23
-	0	((poly near5 glutamic) or levan) and (cationic adj3 salt)	DERWENT	2002/09/10 15:23
-	4179	cationic adj3 salt	USPAT;	2002/09/10 15:23
-	0	((poly near5 glutamic) or levan) same (cationic adj3 salt)	USPAT;	2002/09/10 15:23
-	16	((poly near5 glutamic) or levan) and (cationic adj3 salt)	USPAT;	2002/09/10 15:25
-	1	(cationic adj3 salt) and (b01d053/\$.ipc. or c02f003/\$.ipc.)	DERWENT	2002/09/10 15:25
-	6269	calcium adj2 chloride	DERWENT	2002/09/10 15:37
-	358	(b01d053/\$.ipc. or c02f003/\$.ipc.) and (calcium adj2 chloride)	DERWENT	2002/09/10 15:26
-	0	((b01d053/\$.ipc. or c02f003/\$.ipc.) and (calcium adj2 chloride)) and ((b01d053/\$.ipc. or c02f003/\$.ipc.) and (natural adj2 polymer))	DERWENT	2002/09/10 15:26
-	814028	gel or polymer	DERWENT	2002/09/10 15:26
-	5461	(b01d053/\$.ipc. or c02f003/\$.ipc.) and (gel or polymer)	DERWENT	2002/09/10 15:26
-	0	((b01d053/\$.ipc. or c02f003/\$.ipc.) and (gel or polymer)) and (cationic adj3 salt)	DERWENT	2002/09/10 15:26
-	178970	chloride	DERWENT	2002/09/10 15:33
-	1	chloride and ((b01d053/\$.ipc. or c02f003/\$.ipc.) and (natural adj2 polymer))	DERWENT	2002/09/10 15:32
-	1966	435/177-182.ccls.	USPAT;	2002/09/10 15:33
-	415996	chloride	USPAT;	2002/09/10 15:33
-	1180	435/177-182.ccls. and chloride	USPAT;	2002/09/10 15:33
-	250749	gel	USPAT;	2002/09/10 15:33
-	54694	chloride same gel	USPAT;	2002/09/10 15:34
-	263	435/177-182.ccls. and (chloride same gel)	USPAT;	2002/09/10 15:34
-	12831	natural adj3 polymer	USPAT;	2002/09/10 15:34
-	913	gel same (natural adj3 polymer)	USPAT;	2002/09/10 15:35

	1	(chloride same (gel same (natural adj3 polymer))) and 435/177-182.ccls.	USPAT; US-PGPUB	2002/09/10 15:35
	59	chloride same (gel same (natural adj3 polymer))	USPAT; US-PGPUB	2002/09/10 15:35
	29927	calcium adj2 chloride	USPAT; US-PGPUB	2002/09/10 15:37
	2491	gel same (calcium adj2 chloride)	USPAT; US-PGPUB	2002/09/10 15:37
	14	(gel same (calcium adj2 chloride)) same (natural adj3 polymer)	USPAT; US-PGPUB	2002/09/10 15:38
	1	435/177-182.ccls. and ((gel same (calcium adj2 chloride)) same (natural adj3 polymer))	USPAT; US-PGPUB	2002/09/10 15:38
	87	435/177-182.ccls. and (gel same (calcium adj2 chloride))	USPAT; US-PGPUB	2002/09/10 15:49
	23	(natural adj3 polymer) same (calcium adj2 chloride)	USPAT; US-PGPUB	2002/09/10 15:51
	11878	(gel or gelling) adj2 agent	USPAT; US-PGPUB	2002/09/10 15:52
	2	((poly near5 glutamic) or levan) same ((gel or gelling) adj2 agent)	USPAT; US-PGPUB	2002/09/10 15:52
	37	((poly near5 glutamic) or levan) and ((gel or gelling) adj2 agent)	USPAT; US-PGPUB	2002/09/10 15:53
	6	((poly near5 glutamic) or levan) same (calcium adj2 chloride)	USPAT; US-PGPUB	2002/09/10 15:54
	86249	b01d053/\$.ipc. or c02f003/\$.ipc.	DERWENT	2002/09/11 06:47
	2562	xanthan	DERWENT	2002/09/11 06:47
	4	(b01d053/\$.ipc. or c02f003/\$.ipc.) and xanthan	DERWENT	2002/09/11 08:38
	11862	xanthan	USPAT; US-PGPUB	2002/09/11 08:39
	463	435/262.5.ccls.	USPAT; US-PGPUB	2002/09/11 08:41
	4	xanthan and 435/262.5.ccls.	USPAT; US-PGPUB	2002/09/11 08:39
	655	435/262.ccls.	USPAT; US-PGPUB	2002/09/11 08:41
	11	xanthan and 435/262.ccls.	USPAT; US-PGPUB	2002/09/11 08:42
	13681	biodegrad\$	DERWENT	2002/09/11 08:42
	38	xanthan and biodegrad\$	DERWENT	2002/09/11 08:44
	288	bioremed\$	DERWENT	2002/09/11 08:44
	1	xanthan and bioremed\$	DERWENT	2002/09/11 08:44
	86965	microorganism or bacteria	DERWENT	2002/09/11 08:44
	5051	immobiliz\$	DERWENT	2002/09/11 08:44
	154	(microorganism or bacteria) near3 immobiliz\$	DERWENT	2002/09/11 08:45
	0	xanthan and ((microorganism or bacteria) near3 immobiliz\$)	DERWENT	2002/09/11 08:45
	27962	encapsul\$	DERWENT	2002/09/11 08:45
	114	(microorganism or bacteria) near5 encapsul\$	DERWENT	2002/09/11 08:45
	0	((microorganism or bacteria) near5 encapsul\$) and xanthan	DERWENT	2002/09/11 08:45
	89372	xanthan samd (microorganism or bacteria)	DERWENT	2002/09/11 08:45
	39711	bead	DERWENT	2002/09/11 08:45
	1	xanthan and bead and (microorganism or bacteria)	DERWENT	2002/09/11 08:46
	1138515	support or carrier	DERWENT	2002/09/11 08:46
	2412	(microorganism or bacteria) near5 (support or carrier)	DERWENT	2002/09/11 08:46
	2	xanthan and ((microorganism or bacteria) near5 (support or carrier))	DERWENT	2002/09/11 08:47
	3466	210/601-632.ccls.	USPAT; US-PGPUB	2002/09/11 08:47
	16	210/601-632.ccls. and xanthan	USPAT; US-PGPUB	2002/09/11 08:54
	565	435/182.ccls.	USPAT; US-PGPUB	2002/09/11 08:54
	453	435/178.ccls.	USPAT; US-PGPUB	2002/09/11 08:54
	859	435/182.ccls. or 435/178.ccls.	USPAT; US-PGPUB	2002/09/11 08:55

	60	(435/182.ccls. or 435/178.ccls.) and xanthan	USPAT; US-PGPUB	2002/09/11 08:59
	643	405/128.\$.ccls.	USPAT; US-PGPUB	2002/09/11 08:59
	6	xanthan and 405/128.\$.ccls.	USPAT; US-PGPUB	2002/09/11 09:00
	0	405/128.\$.ccls. and levan	USPAT; US-PGPUB	2002/09/11 09:00
	12	210/601-632.ccls. and levan	USPAT; US-PGPUB	2002/09/11 09:00
	463	435/262.5.ccls.	USPAT; US-PGPUB	2002/09/11 09:38
	3466	210/601-632.ccls.	USPAT; US-PGPUB	2002/09/11 09:38
	3741	435/262.5.ccls. or 210/601-632.ccls.	USPAT; US-PGPUB	2002/09/11 09:39
	2343	dehalogenat\$	USPAT; US-PGPUB	2002/09/11 09:39
	90	(435/262.5.ccls. or 210/601-632.ccls.) and dehalogenat\$	USPAT; US-PGPUB	2002/09/11 09:39
	10937	natural adj2 polymer	USPAT; US-PGPUB	2002/09/11 09:39
	0	((435/262.5.ccls. or 210/601-632.ccls.) and dehalogenat\$) and (natural adj2 polymer)	USPAT; US-PGPUB	2002/09/11 09:39
	126590	bead	USPAT; US-PGPUB	2002/09/11 09:39
	10	((435/262.5.ccls. or 210/601-632.ccls.) and dehalogenat\$) and bead	USPAT; US-PGPUB	2002/09/11 09:42
	2779	gel near3 bead	USPAT; US-PGPUB	2002/09/11 09:42
	2	dehalogenat\$ and (gel near3 bead)	USPAT; US-PGPUB	2002/09/11 09:42
	9	aglinate	USPAT; US-PGPUB	2002/09/11 09:42
	0	dehalogenat\$ same aglinate	USPAT; US-PGPUB	2002/09/11 09:43
	28159	alginate	USPAT; US-PGPUB	2002/09/11 09:43
	0	dehalogenat\$ same aglinate	USPAT; US-PGPUB	2002/09/11 09:43
	0	dehalogenat\$ same alginate	USPAT; US-PGPUB	2002/09/11 09:43
	137	dehalogenat\$ and alginate	USPAT; US-PGPUB	2002/09/11 09:44
	83	(435/262.5.ccls. or 210/601-632.ccls.) and alginate	USPAT; US-PGPUB	2002/09/11 09:44
	33026	phenylalanine	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:43
	45767	alanine	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:43
	34325	leucine	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:43

	39009	glutamic adj2 acid	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:44
	4304	polyamino adj2 acid	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:44
	2671	poly adj2 amino adj2 acid	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:44
	86146	phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (poly adj2 amino adj2 acid)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:20
	4317	435/174-182.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:46
	586	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (poly adj2 amino adj2 acid)) and 435/174-182.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:47
	2676	immobiliz\$ near5 (microorganism or bacteria)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:30
	56	((phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (poly adj2 amino adj2 acid)) and 435/174-182.ccls.) and (immobiliz\$ near5 (microorganism or bacteria))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:51
	32	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (poly adj2 amino adj2 acid)) same (immobiliz\$ near5 (microorganism or bacteria))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:58
	10700	c12n011/\$.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 14:59
	445	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (poly adj2 amino adj2 acid)) and c12n011/\$.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:30
	1441	10.ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:30

	1441	(immobiliz\$ near5 (microorganism or bacteria)).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:30
	21640	7.ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:30
	11	((immobiliz\$ near5 (microorganism or bacteria)).ab.) and 7.ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:43
	3976	mucin	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:43
	21	mucin and (435/174-182.ccls. or c12n011/\$.ipc.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:51
	1257	levan	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:51
	78	adhesive adj2 polysaccharide	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:52
	5286	mucin or levan or (adhesive adj2 polysaccharide)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:52
	209742	amino adj2 acid	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:52
	234241	phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:21
	234298	(adhesive adj2 polysaccharide) or (phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:53
	236679	(mucin or levan or (adhesive adj2 polysaccharide)) or (phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:53

	18409	((mucin or levan or (adhesive adj2 polysaccharide)) or (phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid))) same (bacteria or microorganism)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:54
	24	((immobiliz\$ near5 (microorganism or bacteria)).ab.) same ((mucin or levan or (adhesive adj2 polysaccharide)) or (phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:57
	2590	water adj2 soluble adj2 polysaccharide	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:57
	16	(water adj2 soluble adj2 polysaccharide) same levan	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/29 15:57
	234241	phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:21
	538714	gel or precipitate	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:21
	2820	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) near5 (gel or precipitate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:22
	265556	microorganism or bacteria	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:22
	35	((phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) near5 (gel or precipitate)) same (microorganism or bacteria)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:25
	8	levan near5 (gel or precipitate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:35
	5	("3033758" "3067037" "3996389" "4335207" "4356252").PN.	USPAT	2003/05/30 07:29
	4	4879228.URPN.	USPAT	2003/05/30 07:31
	3	2673828.bn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:37
	2	4399221.bn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:39

	93	extracellular adj2 polymer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:08
	3 4317	("3096293" "3406114" "3655512").PN. 435/174-182.ccls.	USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 07:48 2003/05/30 08:08
	10700	c12n011/\$.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:09
	12273	435/174-182.ccls. or c12n011/\$.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:09
	181792	emulsif\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:09
	2640	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) same emulsif\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:09
	9	(435/174-182.ccls. or c12n011/\$.ipc.) and ((phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) same emulsif\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:10
	615098	stabiliz\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:10
	9241	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) same stabiliz\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:10
	63	(435/174-182.ccls. or c12n011/\$.ipc.) and ((phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) same stabiliz\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:18
	4033	c12n011/02.ipc. or c12n011/04.ipc. or c12n011/10.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:19
	5	(c12n011/02.ipc. or c12n011/04.ipc. or c12n011/10.ipc.) and levan	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:21

	411	(c12n011/02.ipc. or c12n011/04.ipc. or c12n011/10.ipc.) and (phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:21
	265556	microorganism or bacteria	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 08:22
	172	((c12n011/02.ipc. or c12n011/04.ipc. or c12n011/10.ipc.) and (phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid))) and (microorganism or bacteria)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/30 10:10

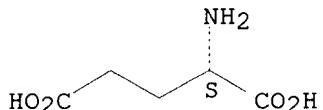
L9 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2002 ACS
RN 25513-46-6 REGISTRY
CN L-Glutamic acid, homopolymer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glutamic acid, L-, peptides (8CI)
OTHER NAMES:
CN .alpha.-L-Glutamic acid polymer
CN .gamma.-L-Polyglutamic acid
CN Glutamic acid homopolymer
CN Glutamic acid polymer
CN L-Glutamic acid polymer
CN **PGA**
CN Poly(.alpha.-L-glutamic acid)
CN Poly(L-glutamic acid)
CN Poly-L-glutamate
CN Polyglutamic acid
FS STEREOSEARCH
DR 24938-00-9, 115529-71-0, 66415-63-2, 141982-72-1, 84960-48-5, 26717-13-5
MF (C₅ H₉ N O₄)_x
CI PMS, COM
PCT Polyamide, Polyamide formed
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CIN, CSCHEM, DDFU,
DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, PIRA,
PROMT, RTECS*, TOXCENTER, TULSA, USPAT2, USPATFULL
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RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 56-86-0
CMF C₅ H₉ N O₄

Absolute stereochemistry.



1596 REFERENCES IN FILE CA (1967 TO DATE)
371 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1599 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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RN 9013-95-0 REGISTRY
CN **Levan (9CI)** (CA INDEX NAME)

OTHER NAMES:

CN Gum levan
CN Gums, *Pseudomonas*
DR 9037-89-2
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration
LC STN Files: BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT,
CHEMCATS, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
NAPRALERT, TOXCENTER, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

470 REFERENCES IN FILE CA (1967 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
471 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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